

PERSONAL INFORMATION **Eleonora Lopez**

EDUCATION

- 2021–Present **PhD in Information and Communication Technology (ICT)**  
Sapienza University of Rome, Italy.
- 2018–2021 **Masters of Engineering in Computer Science**  
Sapienza University of Rome, Italy. Grade: 110/110 Cum Laudae
- 2014–2018 **Bachelor of Engineering in Computer Science**  
Sapienza University of Rome, Italy. Grade: 109/110

PUBLICATIONS

- [1] **E. Lopez**, E. Grassucci, M. Valleriani, and D. Comminiello. “Hypercomplex Neural Architectures for Multi-View Breast Cancer Classification”. In: *arXiv preprint arXiv:2204.05798* (2022).
- [2] **E. Lopez**, F. Betello, F. Carmignani, E. Grassucci, and D. Comminiello. “PHAM: Parameterized Hypercomplex Models Based on Attention-Map Augmentation for Breast Cancer Classification”. In: *submitted to Pattern Recognition Letters* (2022).
- [3] **E. Lopez**, E. Chiarantano, E. Grassucci, and D. Comminiello. “Hypercomplex Multi-modal Emotion Recognition from EEG and Peripheral Physiological Signals”. In: *2023 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW)*. 2023.

ACADEMIC ACTIVITIES

- Jun 2023 **Invited Reviewer**  
IEEE Machine Learning for Signal Processing Workshop (MLSP) 2023.
- Jan 2023 **Invited Reviewer**  
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI).
- Dec 2022 **Invited Reviewer**  
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2023.

AWARDS

- 2022 **Progetti per Avvio alla Ricerca Tipo1**  
Projet: "Interpretable attention-based deep learning models in the hypercomplex domain for breast cancer screening", Sapienza University of Rome, Italy.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B2	B2	B1	B2	B1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](https://www.europecollege.edu/CEFR/)